



- 2 Type**
- AP** U-bar version, with two flanged washers
 - CP** U-bar version, with two flanged washers and GN 708.1 spindle assembly
 - EP** Solid bar version, with weldable clasp
- 3 Coding**
- M** Magnetic piston

Specification

- Parts in sheet metal
Case-hardened steel C10
Zinc plated, blue passivated finish
- Hardened bearing pins
- Case-hardened bearing rivets
- Case-hardened air cylinder bearing pins
- Double-action air cylinder
Max. pressure 6 bar
- All moving parts lubricated with special grease
- Spindle assembly GN 708.1, Type A
→ page 858
 - Steel, zinc plated, blue passivated finish
 - Rubber tip 85 shore A
- **RoHS compliant**

Accessory

- Spindle assemblies → starting from page 856
- Clamp mounts GN 801 (for type AP3)
→ www.jwwinco.com
- Clamp mounts GN 809 (for type EP3)
→ www.jwwinco.com
- Sensor GN 3380 → page 888

Information

The clamping principle of GN 860 pneumatic toggle clamps is identical in construction and dimensions to the manually operated GN 810 vertical acting toggle clamps.

To ensure an extended life of the mechanical parts as well as the air cylinders, the operating pressure should not exceed 6 bar and a compressed air maintenance unit should be installed upstream.

GN 860 toggle clamps have a permanent magnet integrated into the piston. In conjunction with GN 3380 sensors, it is possible to detect the piston position, which can deliver a signal, for instance to a machine controller.

see also...

- [General Information on Pneumatic Toggle Clamps](#) → page 840
- [List of Pneumatic Clamps](#) → page 834

How to order

GN860-330-AP-M

- | | |
|---|--------|
| 1 | Size |
| 2 | Type |
| 3 | Coding |

Universal table



Dimensions in: millimeters - inches

Size	F _H Holding capacity	F _S Clamping force at 6 bar ≈	a ≈	b ₁	b ₂	d ₁ Thread	d ₂	d ₃ Compressed air connections	Inside Ø connection tube	h ₁ ≈	h ₂	h ₃	h ₄	h ₅
75	700 N 157 lbf	380 N 85.43 lbf	20 0.79	42 1.65	5.2 0.20	M 5	4.5 0.18	M 5	4 0.16	54 2.13	22 0.87	11 0.43	19 0.75	7.3 0.29
130	1600 N 360 lbf	800 N 180 lbf	28 1.10	47.5 1.87	6.2 0.24	M 6	5.6 0.22	G 1/8	4 0.16	66 2.60	30 1.18	16 0.63	25.5 1.00	13.5 0.53
230	2200 N 495 lbf	1200 N 270 lbf	40 1.57	52 2.05	8.2 0.32	M 8	6.7 0.26	G 1/8	4 0.16	78 3.07	36 1.42	18 0.71	30 1.18	12.5 0.49
330	2500 N 562 lbf	1750 N 393 lbf	45 1.77	74 2.91	10.5 0.41	M 10	8.6 0.34	G 1/4	6 0.24	96 3.78	46 1.81	22 0.87	37 1.46	18 0.71
430	4000 N 899 lbf	3200 N 719 lbf	48 1.89	73 2.87	12.5 0.49	M 12	8.5 0.33	G 1/4	8 0.31	115 4.53	55 2.17	26 1.02	43 1.69	22.5 0.89

Size	l ₁ ≈ Type AP Type CP	Type EP	l ₂ ≈	l ₃ ≈	l ₄ ≈ max.	l ₅	m ₁	m ₂	m ₃	m ₄	m ₅	m ₆	r ≈ Type AP Type CP	Type EP	s ₁	s ₂	w Adjustable range
75	162.5 6.40 Type AP 163 6.42 Type CP	163	40 1.57	32 1.26	42 1.65	45 1.77	24 0.94	7 0.28	14.5 0.57	24 0.94	6.5 0.26	16.5 0.65	62.5 2.46 Type AP 63 2.48 Type CP	63	4 0.16	4 0.16	15 0.59
130	195 7.68 Type AP 196 7.72 Type CP	196	45 1.77	42 1.65	54 2.13	55 2.17	27 1.06	11.2 0.44	12.5 0.49	29 1.14	8 0.31	19 0.75	79 3.11 Type AP 80 3.15 Type CP	80	5 0.20	5 0.20	17.5 0.69
230	259 10.20 Type AP 260 10.24 Type CP	260	55 2.17	57.5 2.26	75 2.95	68 2.68	32 1.26	12 0.47	18.5 0.73	32 1.26	11.5 0.45	20.5 0.81	104 4.09 Type AP 105 4.13 Type CP	105	6 0.24	6 0.24	20 0.79
330	308 12.13 Type AP 310 12.20 Type CP	310	64 2.52	67 2.64	85 3.35	77 3.03	46 1.81	10.5 0.41	29 1.14	45 1.77	9 0.35	32 1.26	121 4.76 Type AP 123 4.84 Type CP	123	7 0.28	7 0.28	19 0.75
430	364 14.33 Type AP 365 14.37 Type CP	365	78 3.07	73 2.87	98 3.86	100 3.94	45 1.77	14 0.55	32 1.26	45 1.77	14 0.55	32 1.26	140 5.51 Type AP 141 5.55 Type CP	141	8 0.31	10 0.39	33 1.30

